









IX Reunión de la Red Interamericana de Ventanillas Únicas de Comercio Exterior y Facilitación Comercial

7 y 8 de septiembre de 2017 Hotel Sofitel Montevideo, Uruguay

Port Community SystemsGlobal Trends









Challenges for ports



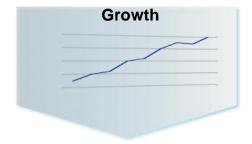






Maritime transportation is undergoing more change in recent years than it has in the past hundreds of years. Leading ports have also reacted to these port challenges by investing in technology...

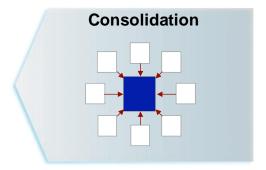




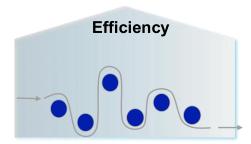




















Understanding Port Community Systems

managing complexity

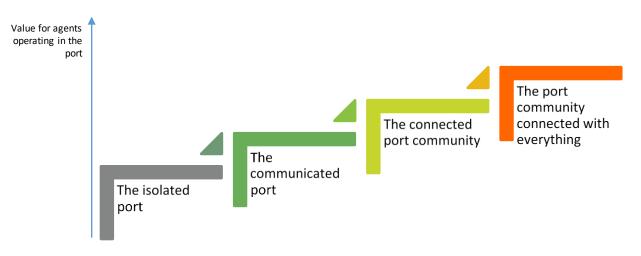






Port Community Systems – Global Trends

Port Community Systems are the result of a long process



The four phases of the port digital transformation process

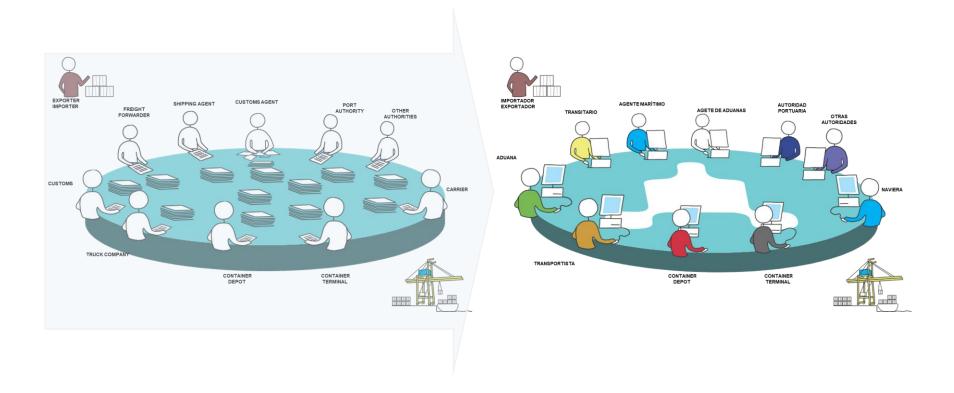






Port Community Systems – Global Trends

Information flows around a modern seaport are very complex, involving a large number of agents and generating much paperwork. (Each TEU movement requires multiple communications among members of the port community, thus creating a complex information web).





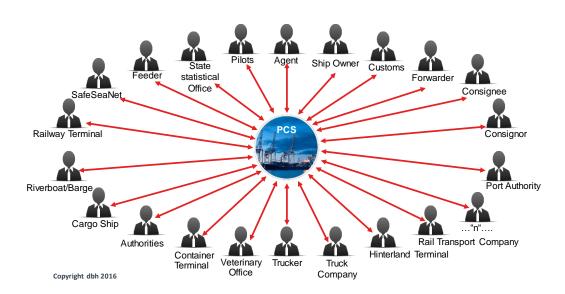




According to the IPCSA a **Port Community System** is:

- a neutral and open electronic platform enabling intelligent and secure exchange
 of information between public and private stakeholders in order to improve the
 competitive position of the sea and air ports' communities;
- optimises, manages and automates port and logistics efficient processes through a single submission of data and connecting transport and logistics chains.

A TRUSTED THIRD PARTY









PCS - key aspects

- Neutral Electronic Exchange platform
- Trusted third party (stakeholders from the community)
- Relatively low development cost and operating costs
- Low cost solution for users
- A community solution created by Information technology
- Not a Software solution
- Tailored/customised solutions
- Always evolving and adapting to new requirements and challenges...
- Community led trade facilitation tool
- Links trade operational processes and administrative procedures
- Reduces interfaces required by public administrations as they can use
 PCS as main exchange platform







PCS - key aspects

Target (Users/Customers)	Business Model	Operation Model	Services
Port OperatorsAuthorities:			
Port Authority			
Customs			
Harbour Master			
Coast Guard	Fully Private		
Inmigration		Fully Deivete	Establish of TOC
Sanitary Inspection		Fully Private	Extension of TOS
Shipping Lines			
Line Agents	Mixed		
NVOCC		Mixed	Wide Range
Container Terminals			
Container Depots	Local / Port Authorities		
Road /Rail / River Operators		Public Authorities	B2G / Single Window
Forwarders	National Authorities		
Logistic Operators			
Inland Terminals			
Customs Brokers			
Shippers			



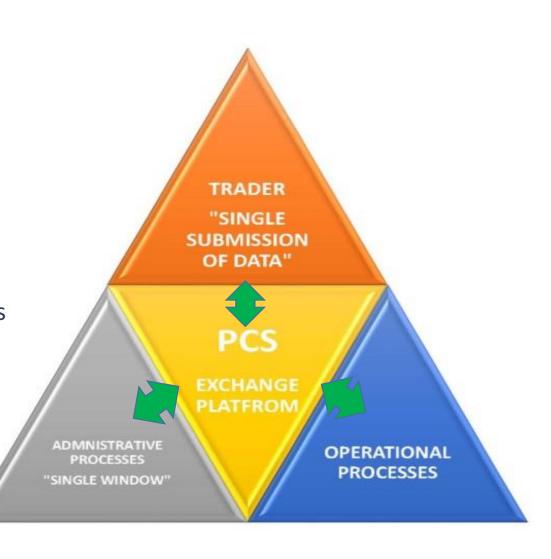




PCS – Trade Facilitation tool

a PCS:

- Links administrative processes to operational ones
- Thus re-using data for both purposes and the re-use of existing Information Systems
- Creating Transparency & reducing trade burdens
- Can also act as a Gateway into a Single Window









PCS - Trends

Community Systems are:

- Becoming an integral part of Trade Facilitation and gateways into Single Window.
- PCS are, in some countries emerging as the Trade Single Window
- Connecting globally to increase transparency
- Connecting locally to improve coordination between different transport modes – Air, Sea, Land, River
- Developing new services based on new technologies (IoT, Big Data, Blockchain, etc.)







PCS & SW a Single Environment

interconnectivity between systems



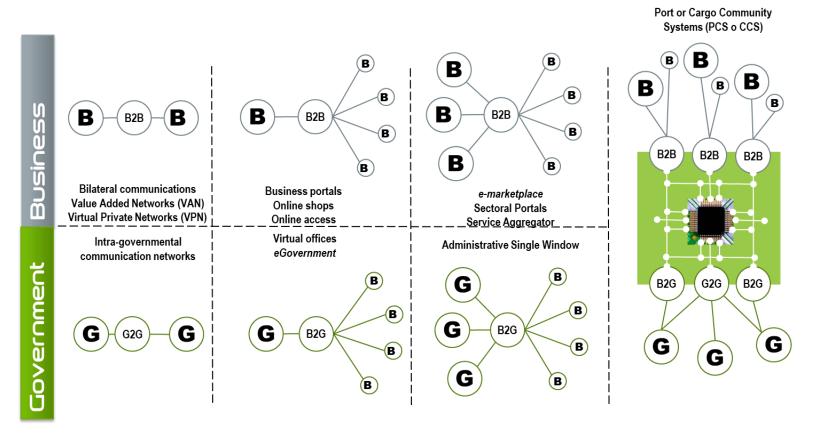
IX Reunión de la Red Interamericana de Comercio Exterior y Facilitación Comercial





Port Community Systems - Global Trends

The wide variety of IT tools around port and trade operations involves an increasing need for **connectivity** and **interoperability** at intra-organization and inter-organization levels but also at intra-government and inter-government levels. ICT tools for **sharing information and collaborating** are a resource of vital importance for the effective and efficient performance of port and trade activities.



Typologies of sharing and collaborative information systems

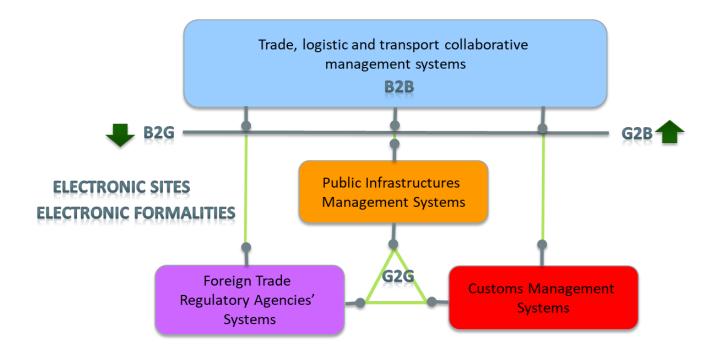








The creation of a **Single Window Environment** can be achieved through the contribution and interoperability of single submission portals for trade, logistics and transport (i.e. **PCS** or CCS), single windows or single submission portals provided by public infrastructure authorities or operators (i.e. **maritime single window**), single windows or single submission portals provided by foreign trade regulatory agencies and public bodies (i.e. **trade single windows**, agencies and public bodies virtual offices) and customs systems for filing different customs declarations (i.e. **eCustoms**).

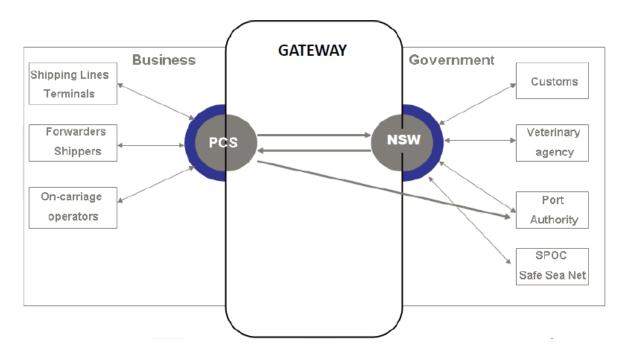








It is important to take into account that PCS systems are not intended to substitute Single Windows but to complement them facilitating the Business to Business communications to coordinate logistics and transport operations and facilitate the preparation of the different formalities to be presented through single windows and/or government single submission portals.



PCS as platforms to access single window systems - IPCSA





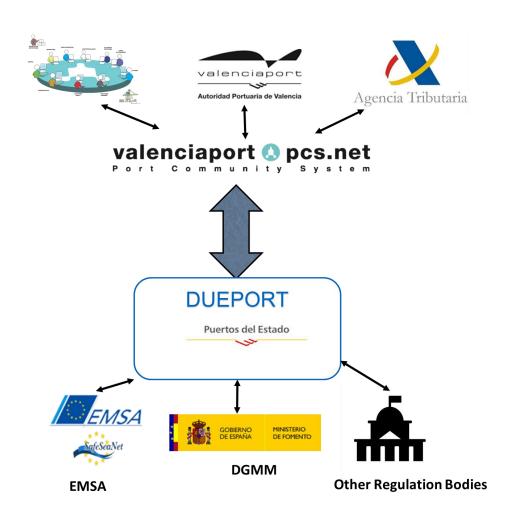


Example:



REPORTING FORMALITIES DIRECTIVE 2010/65/EU

The directive 2010/65/EU aims to simplify and harmonise the administrative procedures applied to maritime transport by establishing a standard electronic transmission of information and by rationalising reporting formalities for ships arriving in and ships departing from European Union (EU) ports.









Adding Value

saving money



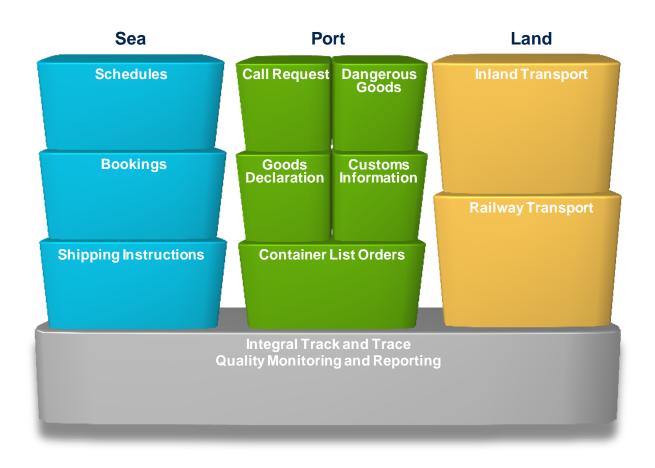




Port Community Systems – Global Trends

Example:











Port Community Systems - Global Trends



Paperless automatic customs check for export and transhipments (Container List orders for Load/Unload)



Permits shipping agents and carriers to send the vessel loading and discharge lists to the container terminals and obtain the respective confirmations of the loading and discharge of the containers figuring on these lists from the terminals.

TOS independent

Each Carrier can work with any terminal with the same link and standards. Work becomes TOS (Terminal Operation System) independent.

Rich Data

Cargo Lists are fed with additional information to carrier and terminal ones: customs status, DG authorizations, Port Authority permission, etc.

AUTHORITIES CARRIER CONTAINER CARRIER 2 CONTAINER CONTAINER Carrier's Systems Any TOS

Spanish Customs Central System

The list is automatically crossed with the customs declarations authorizations in a SOA link with Spanish Customs Central System, no authorization paper is needed







Port Community Systems – Global Trends



Container List orders for Load/Unload (with Automatic Customs Check for Export and transshipments)



Efficiencies and benefits

- Checking a list of 5000 movements took 4 hours before having this tool.
- Now only 3 minutes.
- Time required to verify the transshipped containers of a vessel has been reduced by ten times both for the shipping agencies and the customs' police.









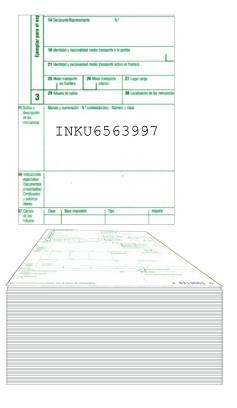




Customs Information



h [- 5		h 📑		1100	4_{h}
11 THE	= 30,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E Trans	
11,	_	77111	111.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	' ' '	1111,
MEDU2994402	20410 12	34029219	MXVER - Versons	MXVER - Versonuz	2210 - DV Clos verted, Pass	
MSQU6010743	20410 12	34029219	MOWER - Versorus	MXVER - Vergorus	2210 - DV Closwerted, Pass	
TGHU2353088	20000 12	34023219	MXVER - Verseruz	MXVER - Veneous	2210 - DV Closwented, Pass	
TRI, U8945850	20060 12	24023219	MOVER - Versione	MXVER - Venecrus	2210 - DV Classwerfed, Pass	
ME0U0290539	20410 12	34023219	MOVER - Versons	MXVER - Versonus	22G1 - Gen. purpose without	
GLOU9471424	20410 12	34024124	MXVER - Versons	MXVER - Versonus	2210 - DV Clos verted, Pass	
MSCU8545841	8882 12	314002443	MXVER - Versioniz	MXVER - Vensorus	4510 - DV Clesswarted, Pass	
M5CU8973228	5632 12	314002422	MOATM - Alberta	MXATM - Albertina	4510 - DV Classwerted, Pass	
TCMU7677869	8192 12	314002443	MXVER - Versons	MXVER - Versonus	4510 - DV Clos verted, Pass	









Port Community Systems – Global Trends





Savings (in time)

The following table reflects typical process time instances measured in minutes

Process	Agent Involved	Former situation (min/consignment)	Current situation (min/consignment)
Prepare Customs Documentation	Shipping Agency	5,4	0,4
Check Customs Documentation	Customs' Police	4,0	0,3
Prepare Customs Documentation	NVOCC	6,6	0,6
Solving Errors	All Agents	30,0	0,5
Total		9,4 to 46,2	0,9 to 1,1













IX Reunión de la Red Interamericana de Ventanillas Únicas de Comercio Exterior y Facilitación Comercial

7 y 8 de septiembre de 2017 Hotel Sofitel Montevideo, Uruguay

Port Community SystemsGlobal Trends

Gracias por su atención

